

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081622\
 Data File : VN073952.D
 Acq On : 16 Aug 2022 16:36
 Operator : JC\MD
 Sample : PB146976ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146976ZHE#08

Quant Time: Aug 17 01:17:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 16 00:45:21 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

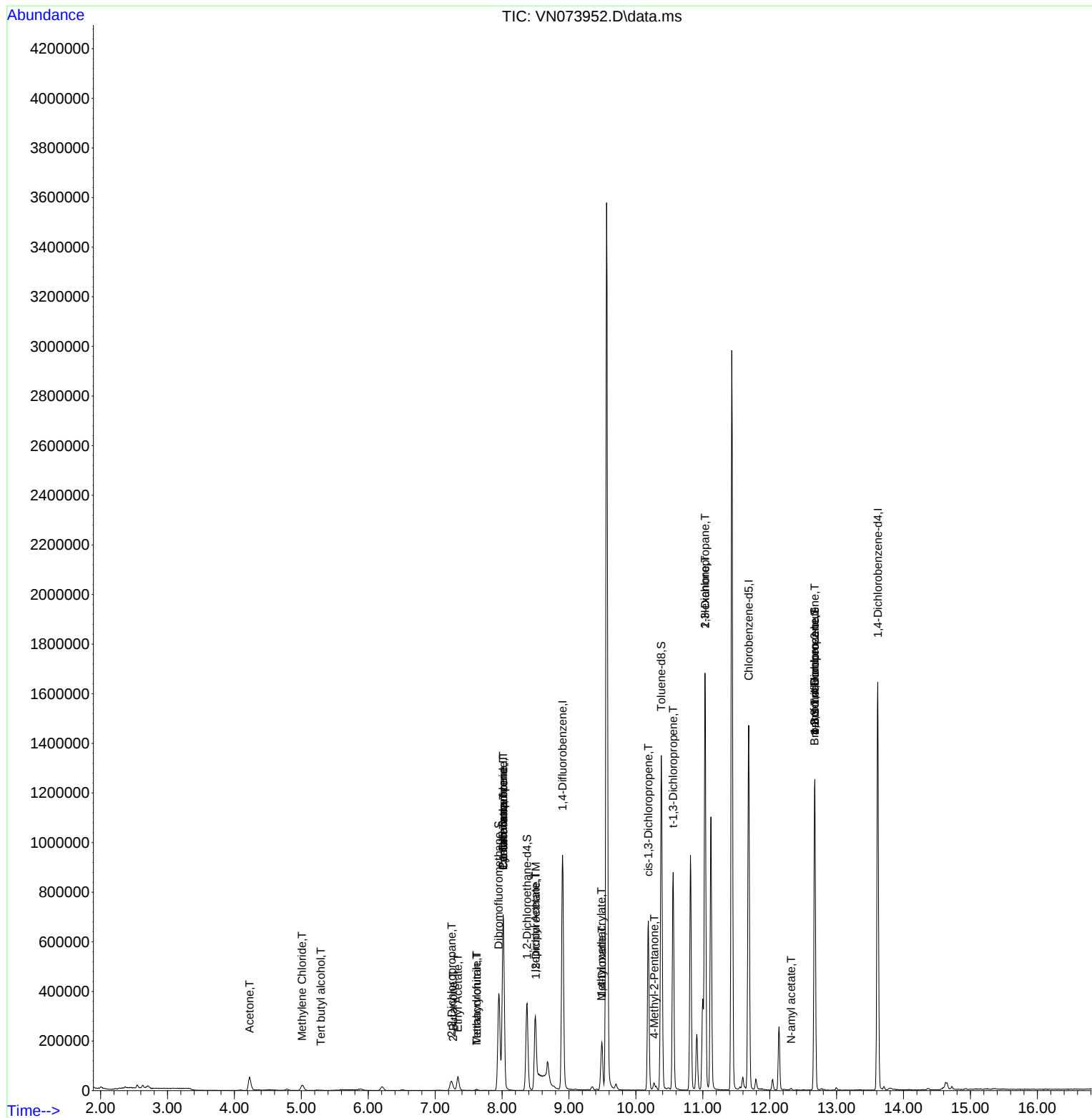
Internal Standards						
1) Pentafluorobenzene	8.016	168	604045	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	900950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	891788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	484872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	293919	49.958	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.920%		
35) Dibromofluoromethane	7.951	113	286393	53.751	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	107.500%		
50) Toluene-d8	10.380	98	969219	46.969	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.940%		
62) 4-Bromofluorobenzene	12.674	95	409526	59.798	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	119.600%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.293	59	1533	1.165	ug/l #	72
16) Acetone	4.228	43	94823	34.162	ug/l	99
18) Methyl Acetate	4.787	43	9913	Below Cal	#	70
20) Methylene Chloride	5.010	84	18406	3.142	ug/l #	86
25) 2-Butanone	7.269	43	14720	3.345	ug/l	94
26) 2,2-Dichloropropane	7.245	77	2458	0.281	ug/l #	53
29) Tetrahydrofuran	7.622	42	3185	1.128	ug/l #	82
31) Cyclohexane	8.016	56	9743	1.188	ug/l #	1
36) 1,1-Dichloropropene	8.016	75	37280	5.037	ug/l #	48
37) Ethyl Acetate	7.340	43	79847	8.906	ug/l	98
38) Carbon Tetrachloride	8.016	117	52255	6.177	ug/l #	17
41) Methacrylonitrile	7.622	41	2083	0.514	ug/l #	34
42) 1,2-Dichloroethane	8.504	62	2440	0.304	ug/l #	74
43) Isopropyl Acetate	8.498	43	442091	34.613	ug/l #	84
48) Methyl methacrylate	9.486	41	11295	2.067	ug/l #	39
49) 1,4-Dioxane	9.492	88	63	0.388	ug/l #	1
51) 4-Methyl-2-Pentanone	10.275	43	17216	1.994	ug/l	93
53) t-1,3-Dichloropropene	10.557	75	2783	0.326	ug/l #	38
54) cis-1,3-Dichloropropene	10.186	75	136087	14.570	ug/l #	61
57) 1,3-Dichloropropane	11.033	76	17990	1.776	ug/l #	42
59) 2-Hexanone	11.033	43	219980	33.100	ug/l #	49
71) Bromoform	12.669	173	2190	0.342	ug/l #	28
74) N-amyl acetate	12.322	43	3027	0.227	ug/l #	42
76) 1,2,3-Trichloropropane	12.674	75	204337	20.276	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	204337	57.667	ug/l #	10

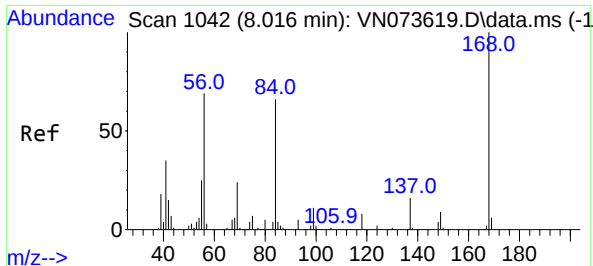
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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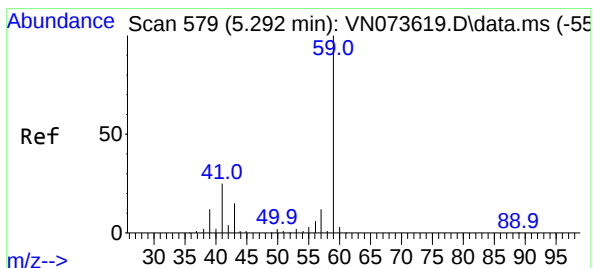
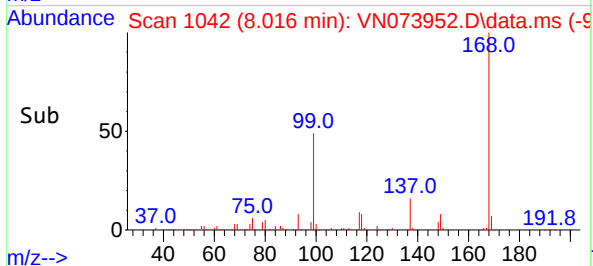
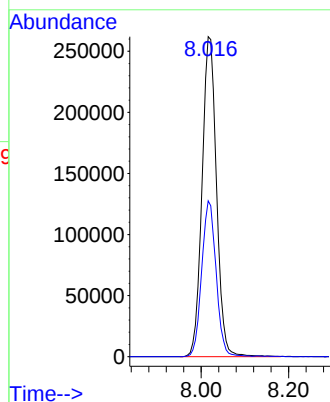
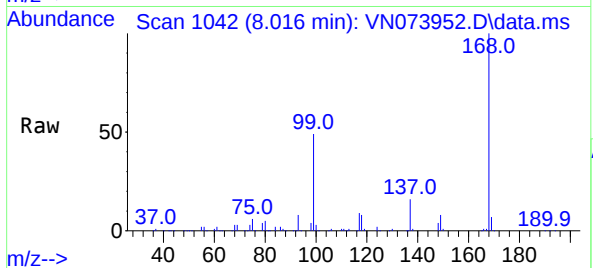




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

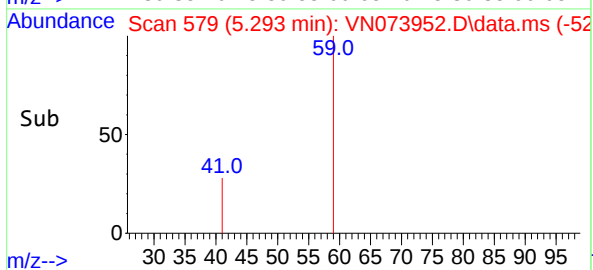
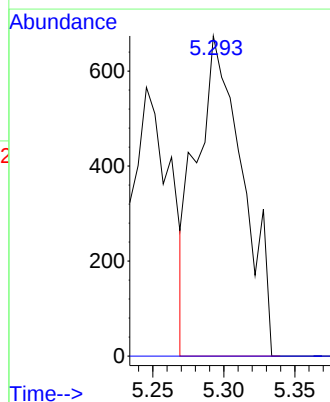
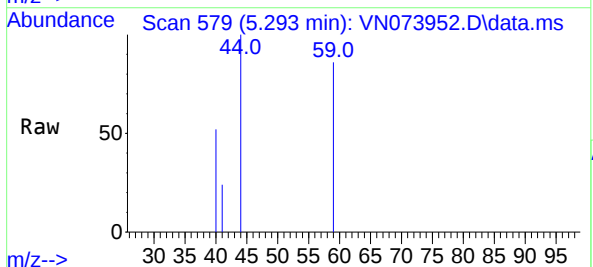
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

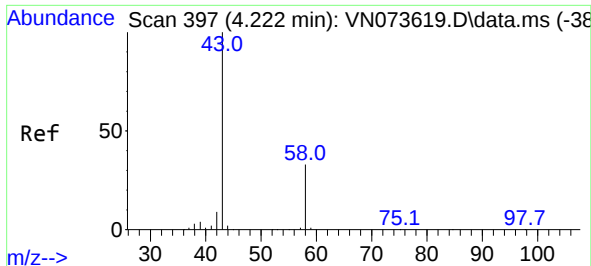
Tgt Ion:168 Resp: 604045
Ion Ratio Lower Upper
168 100
99 48.7 42.3 63.5



#11
Tert butyl alcohol
Concen: 1.165 ug/l
RT: 5.293 min Scan# 579
Delta R.T. 0.001 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 59 Resp: 1533
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

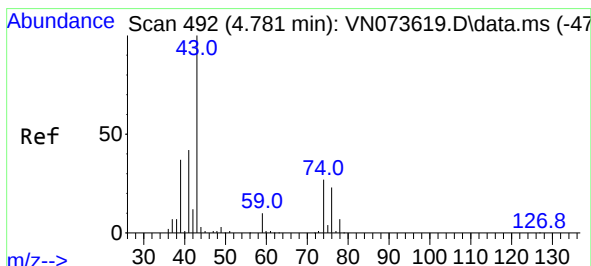
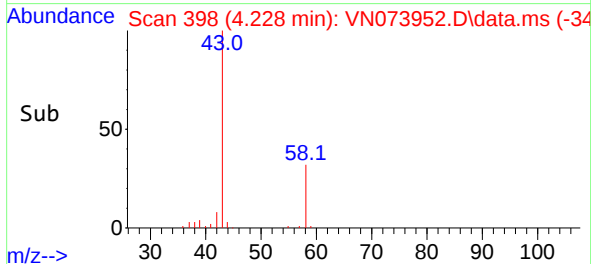
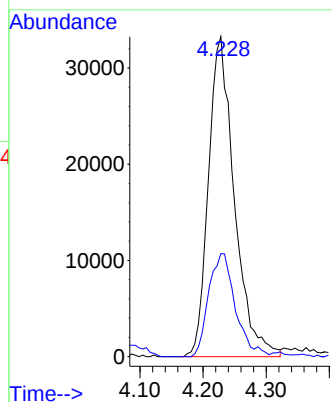
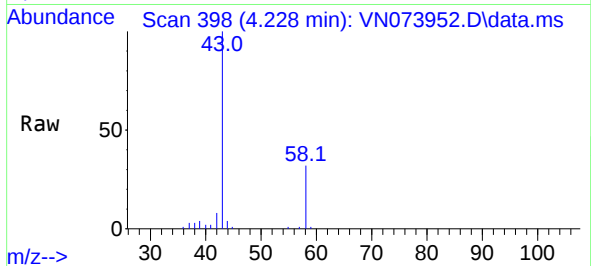




#16
Acetone
Concen: 34.162 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

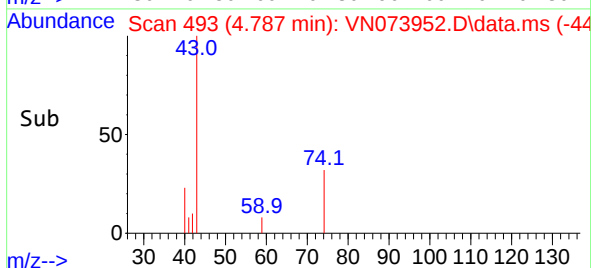
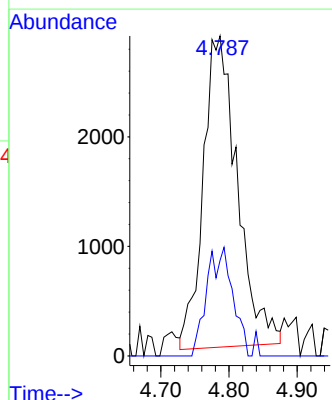
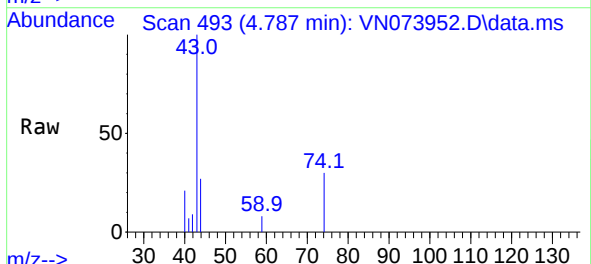
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

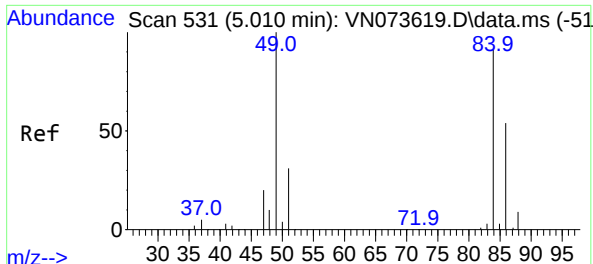
Tgt Ion: 43 Resp: 94823
Ion Ratio Lower Upper
43 100
58 32.2 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.006 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

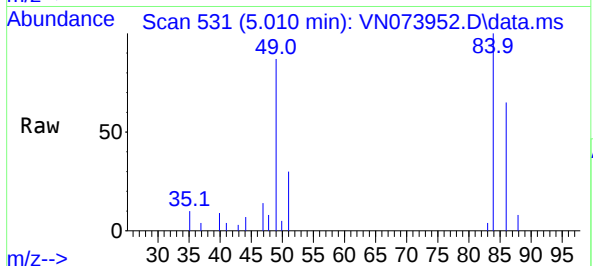
Tgt Ion: 43 Resp: 9913
Ion Ratio Lower Upper
43 100
74 11.6 21.6 32.4#



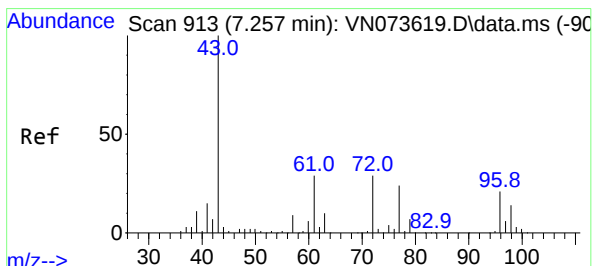
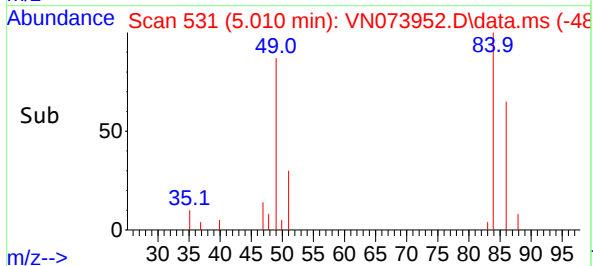
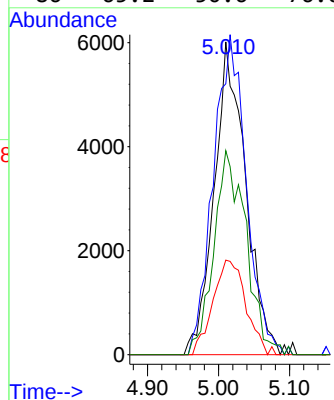


#20
Methylene Chloride
Concen: 3.142 ug/l
RT: 5.010 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

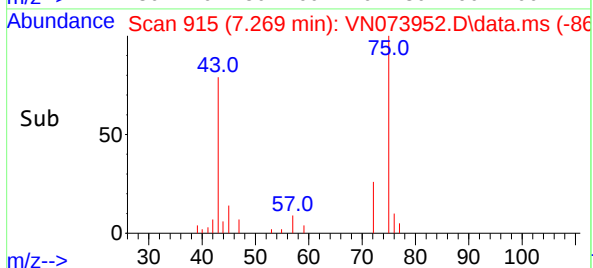
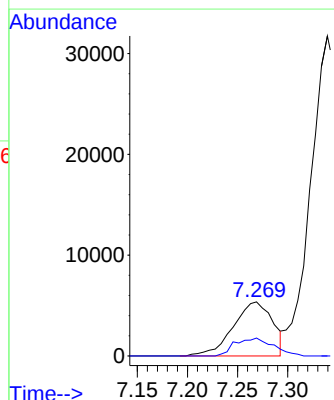
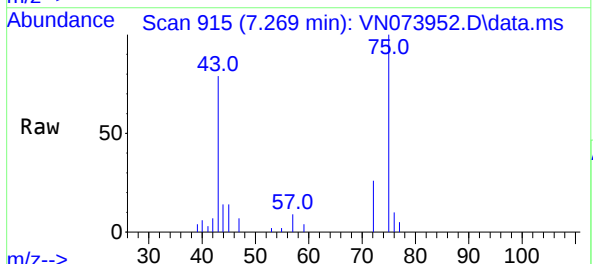


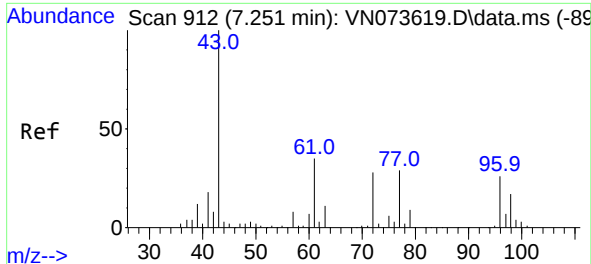
Tgt Ion: 84 Resp: 18406
Ion Ratio Lower Upper
84 100
49 86.6 88.3 132.5#
51 30.2 28.2 42.2
86 65.2 50.6 76.0



#25
2-Butanone
Concen: 3.345 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 43 Resp: 14720
Ion Ratio Lower Upper
43 100
72 33.0 23.7 35.5

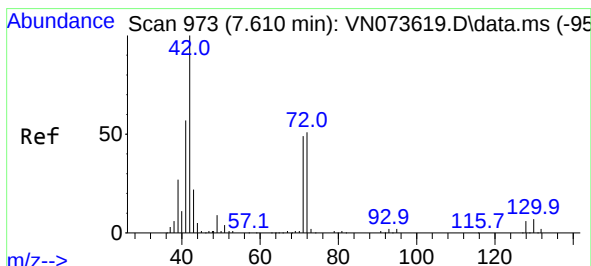
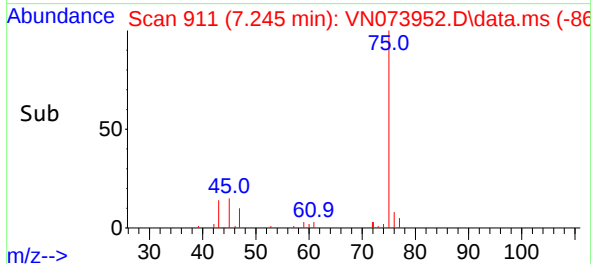
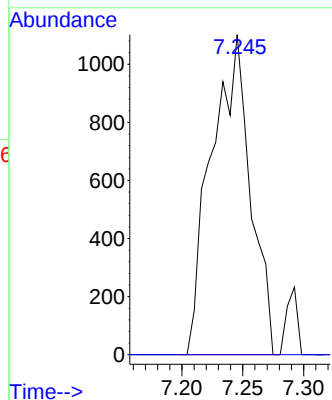
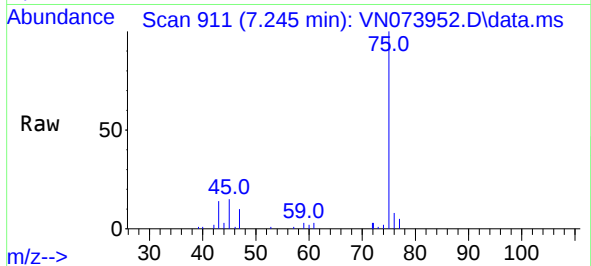




#26
2,2-Dichloropropane
Concen: 0.281 ug/l
RT: 7.245 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

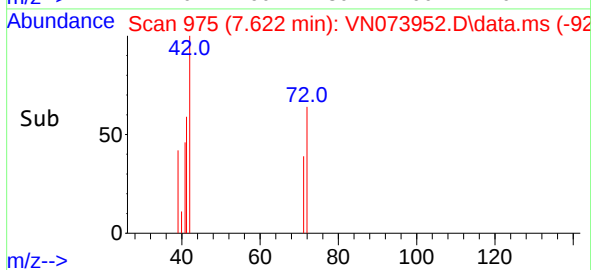
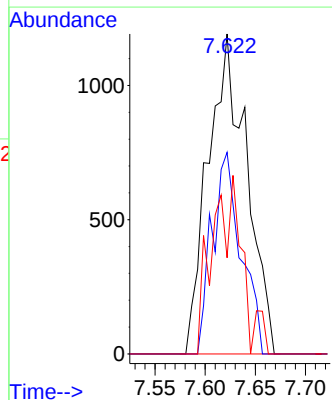
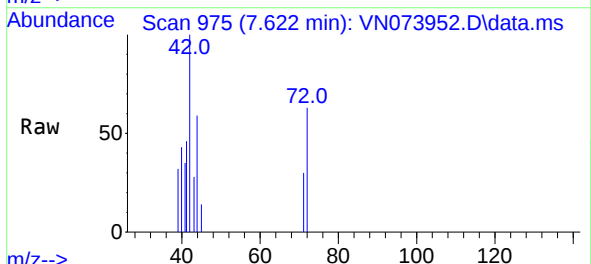
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MSVOA_N
ClientSampleId :
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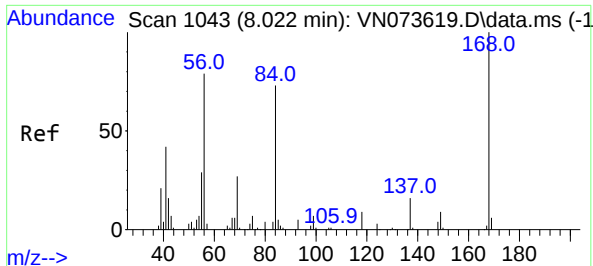
Tgt Ion: 77 Resp: 2458
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 1.128 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.012 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 42 Resp: 3185
Ion Ratio Lower Upper
42 100
72 47.3 39.7 59.5
71 24.0 36.6 55.0#

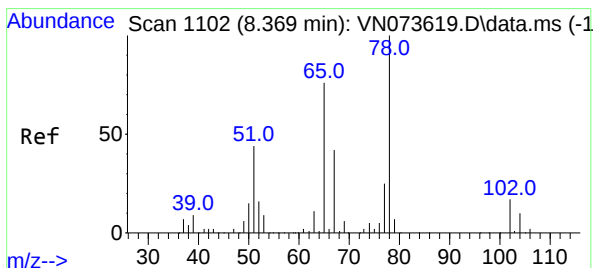
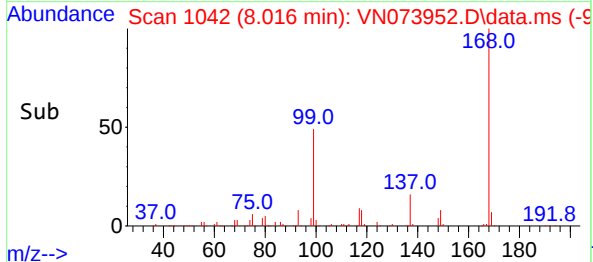
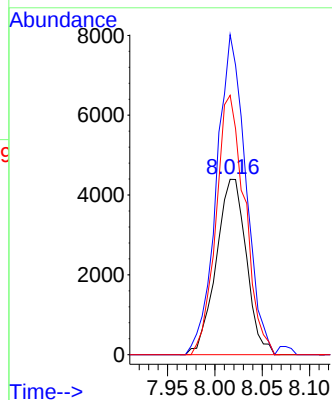
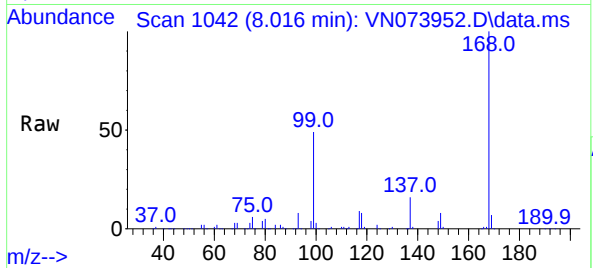




#31
Cyclohexane
Concen: 1.188 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

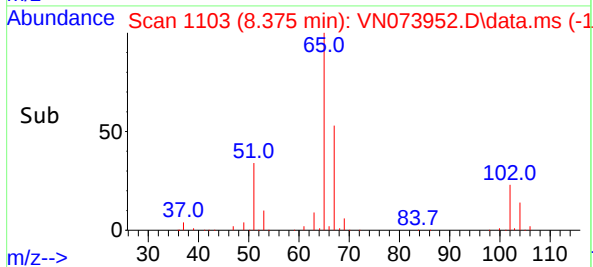
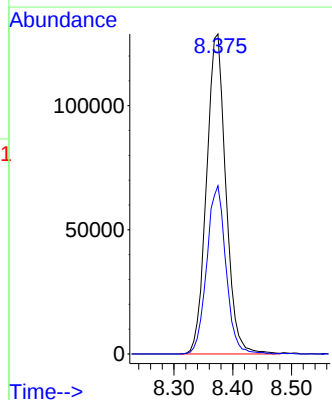
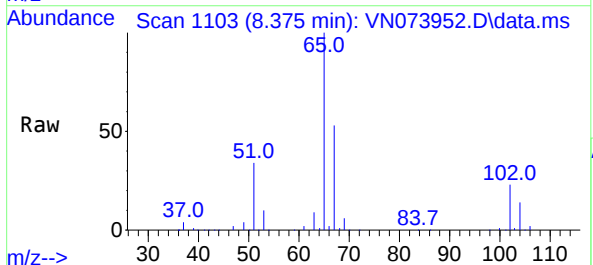
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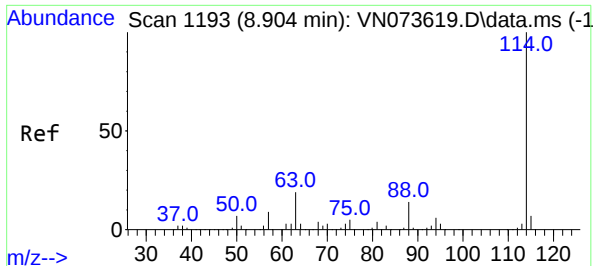
Tgt Ion: 56 Resp: 9743
Ion Ratio Lower Upper
56 100
69 182.5 27.8 41.8#
84 147.9 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 49.958 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 65 Resp: 293919
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB146976ZHE#08

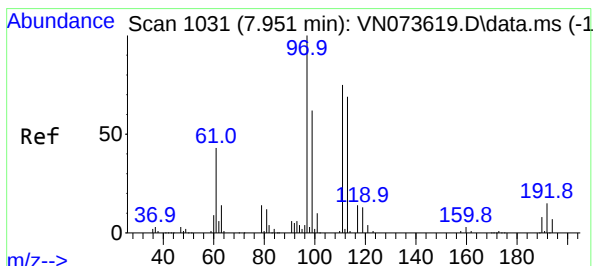
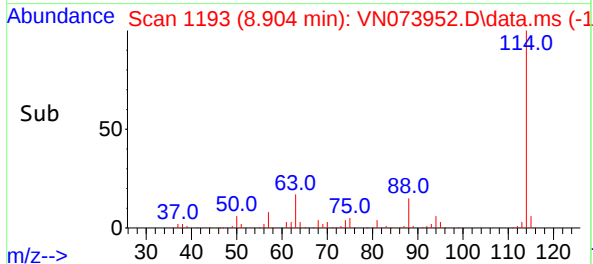
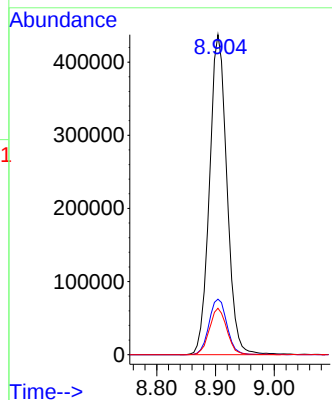
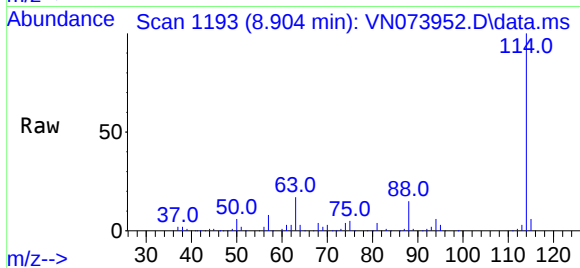
Tgt Ion:114 Resp: 900950

Ion Ratio Lower Upper

114 100

63 17.4 0.0 40.0

88 14.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.751 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

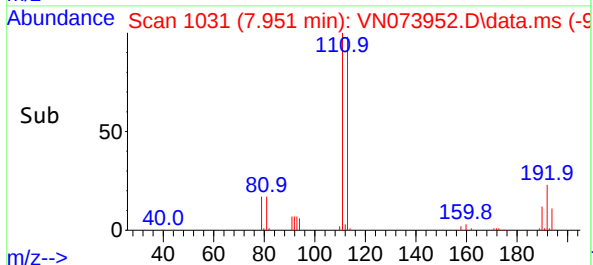
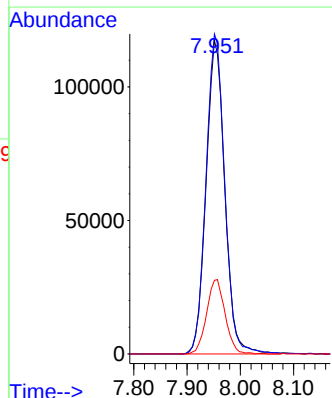
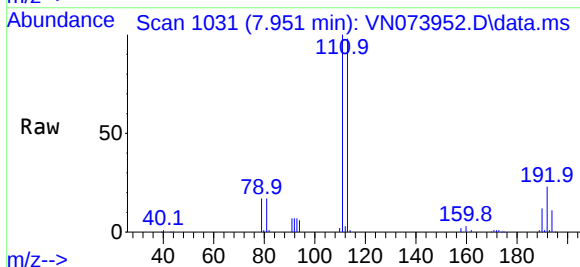
Tgt Ion:113 Resp: 286393

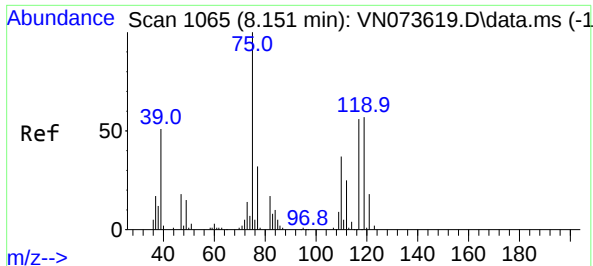
Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

192 23.5 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.037 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB146976ZHE#08

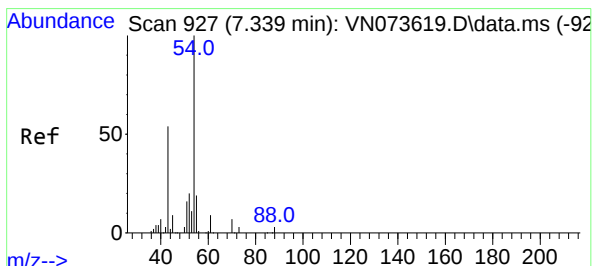
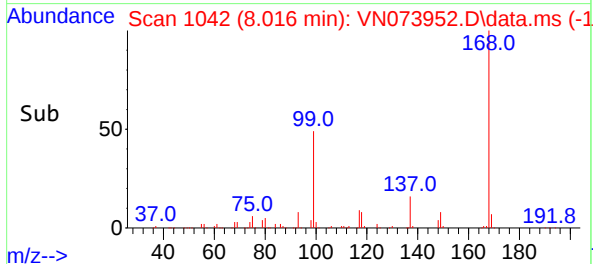
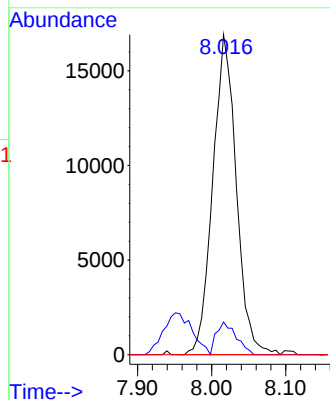
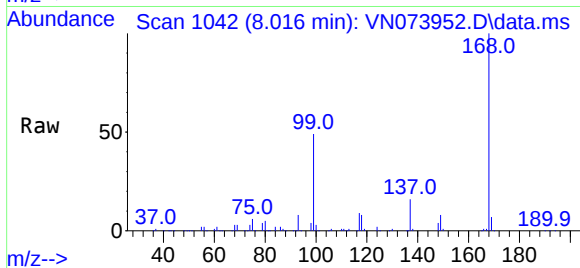
Tgt Ion: 75 Resp: 37280

Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 8.906 ug/l

RT: 7.340 min Scan# 927

Delta R.T. 0.000 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

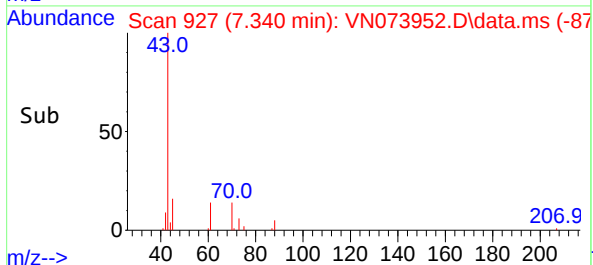
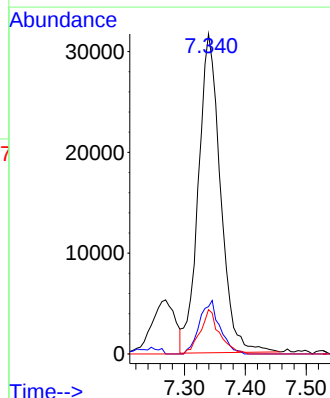
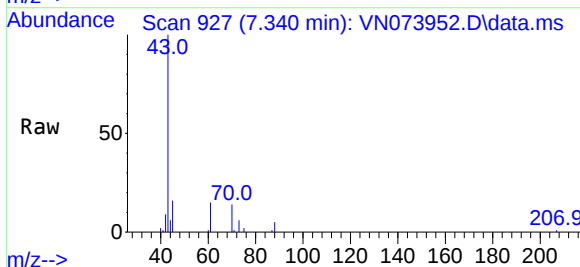
Tgt Ion: 43 Resp: 79847

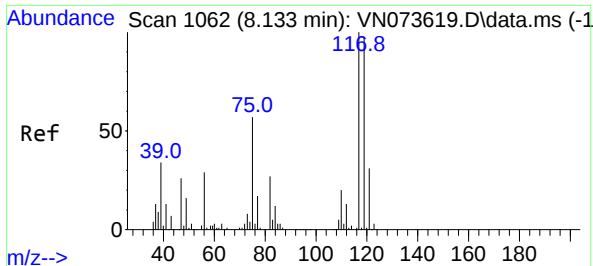
Ion Ratio Lower Upper

43 100

61 15.5 11.8 17.6

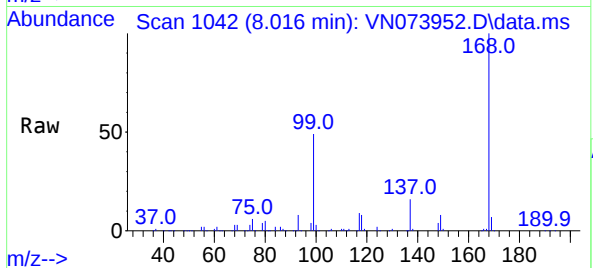
70 12.1 9.3 13.9



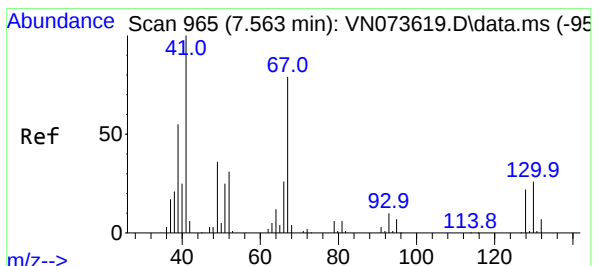
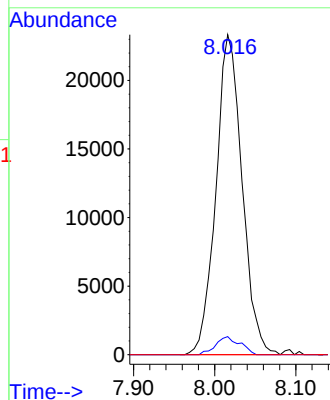
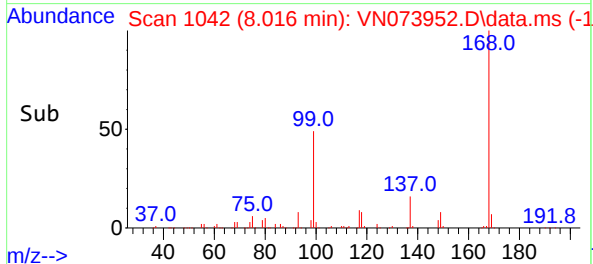


#38
Carbon Tetrachloride
Concen: 6.177 ug/l
RT: 8.016 min Scan# 117
Delta R.T. -0.117 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

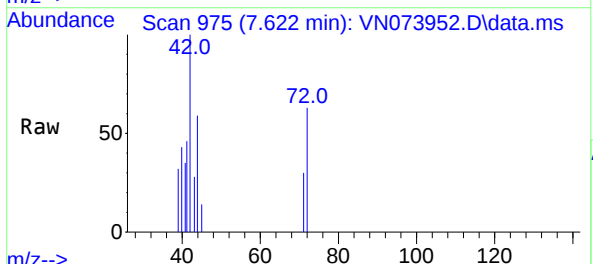
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08



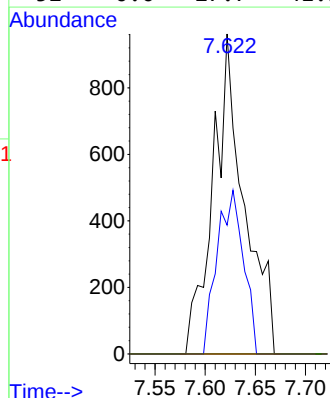
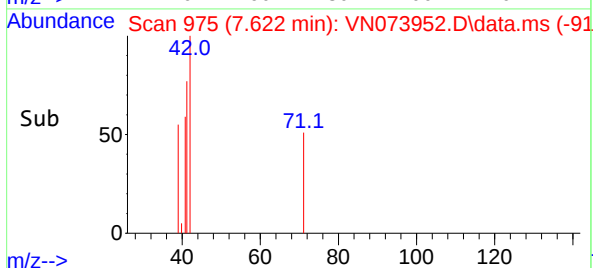
Tgt Ion:117 Resp: 52255
Ion Ratio Lower Upper
117 100
119 5.7 75.8 113.8#
121 0.0 24.6 37.0#

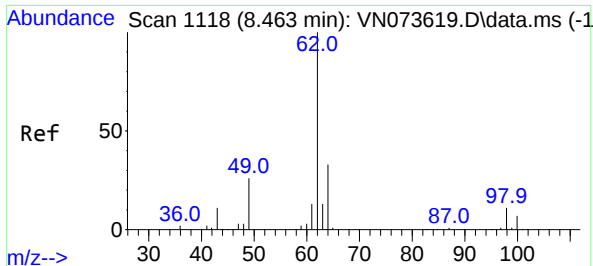


#41
Methacrylonitrile
Concen: 0.514 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.059 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36



Tgt Ion: 41 Resp: 2083
Ion Ratio Lower Upper
41 100
39 43.1 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.304 ug/l

RT: 8.504 min Scan# 1118

Delta R.T. 0.041 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

Instrument :

MSVOA_N

ClientSampleId :

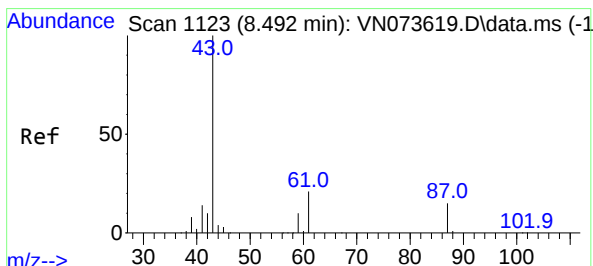
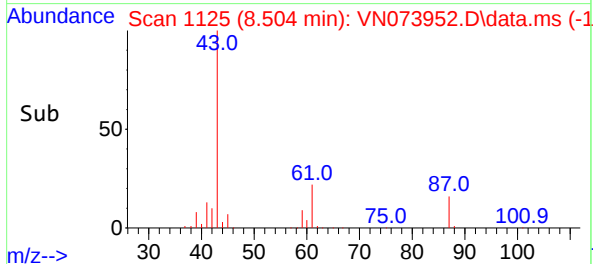
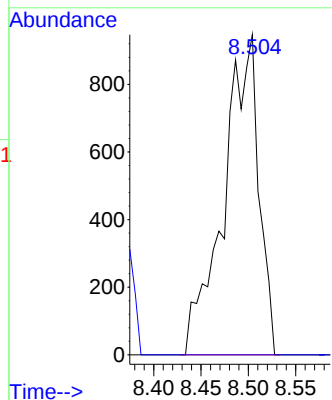
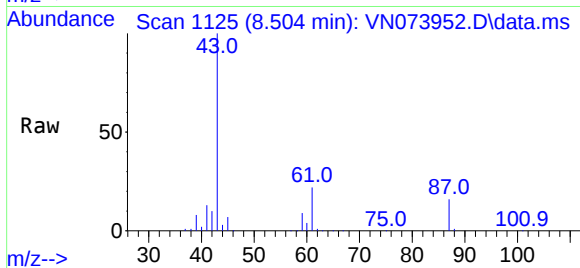
PB146976ZHE#08

Tgt Ion: 62 Resp: 2440

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 34.613 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

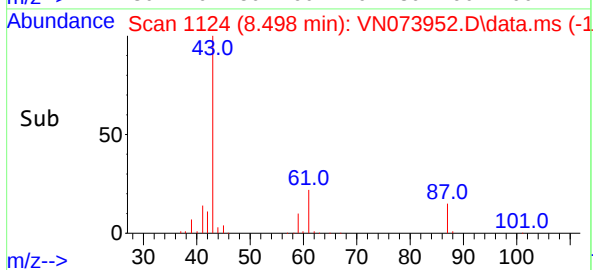
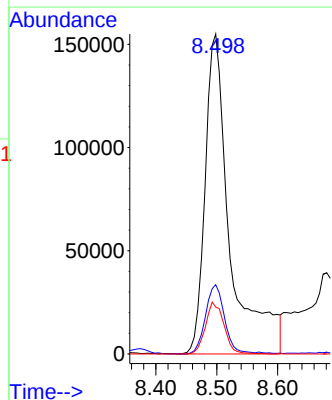
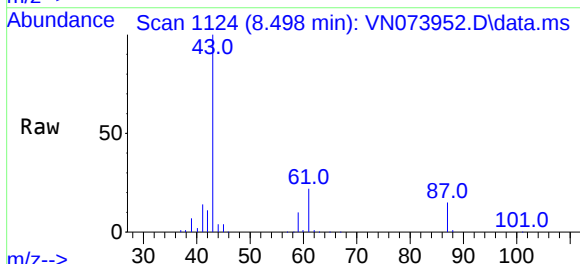
Tgt Ion: 43 Resp: 442091

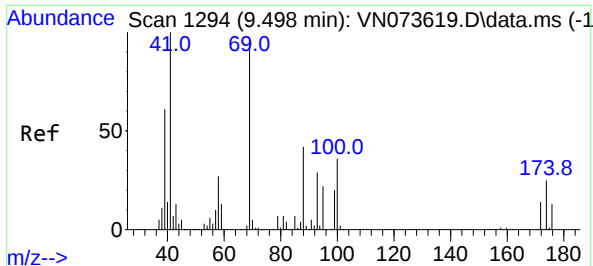
Ion Ratio Lower Upper

43 100

61 16.5 21.9 32.9#

87 12.0 12.0 18.0

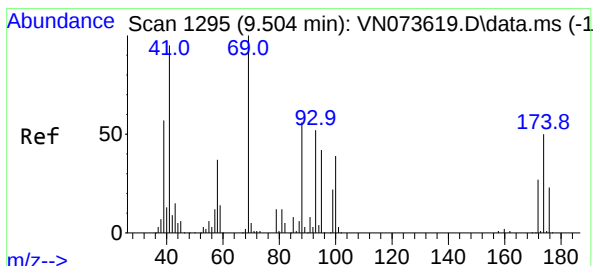
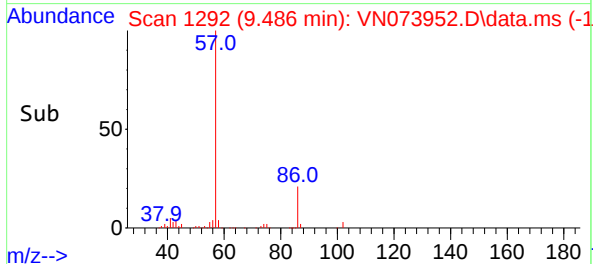
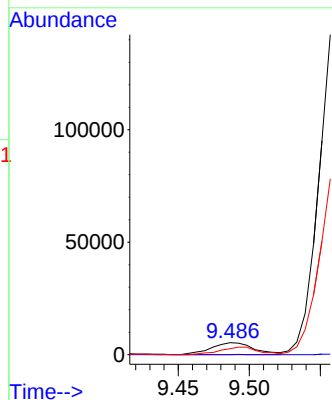
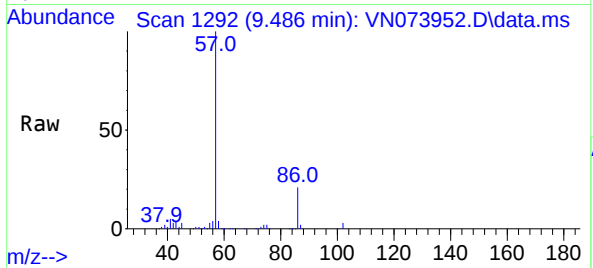




#48
Methyl methacrylate
Concen: 2.067 ug/l
RT: 9.486 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

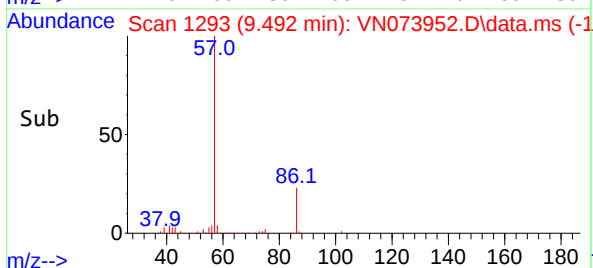
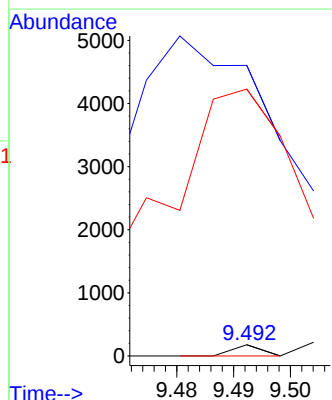
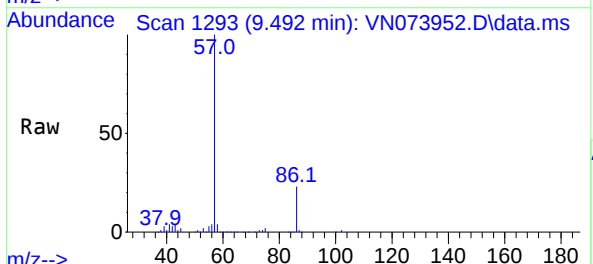
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

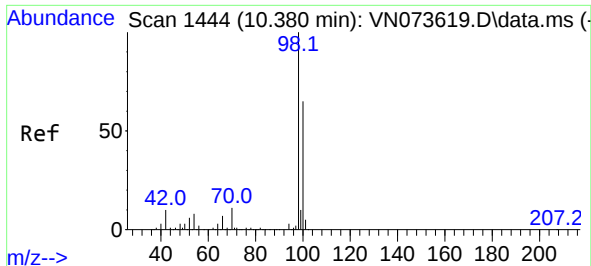
Tgt Ion: 41 Resp: 11295
Ion Ratio Lower Upper
41 100
69 0.5 74.7 112.1#
39 55.8 45.6 68.4



#49
1,4-Dioxane
Concen: 0.388 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.012 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 13807.9 54.2 81.4#

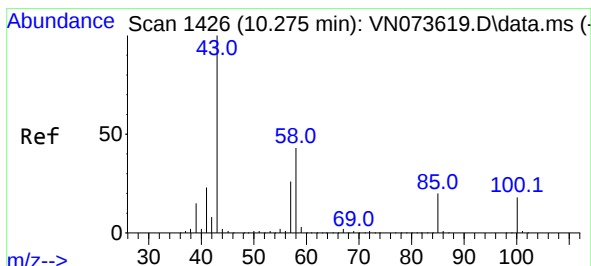
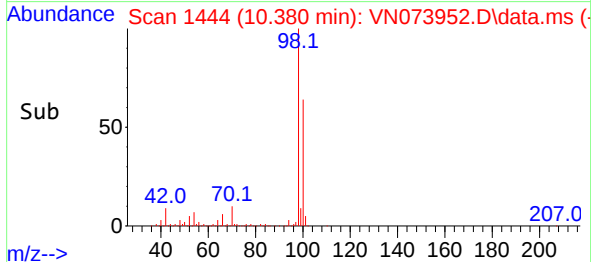
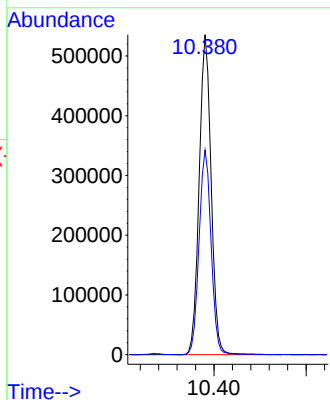
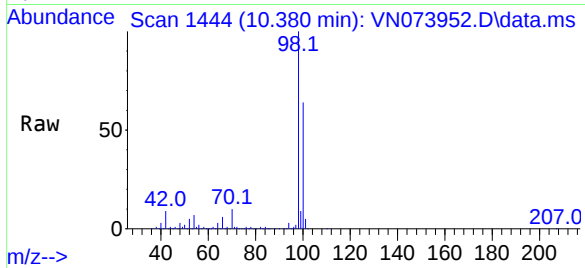




#50
Toluene-d8
Concen: 46.969 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

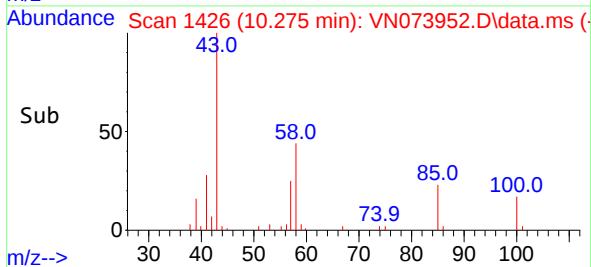
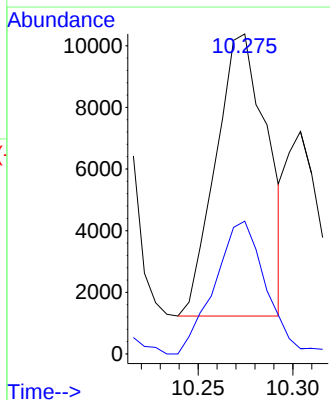
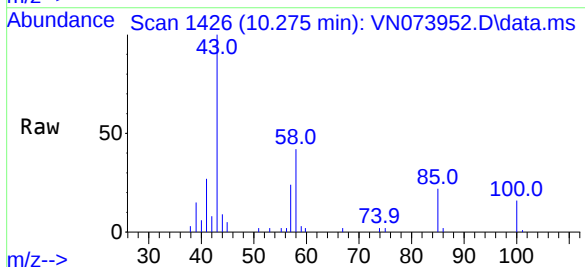
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

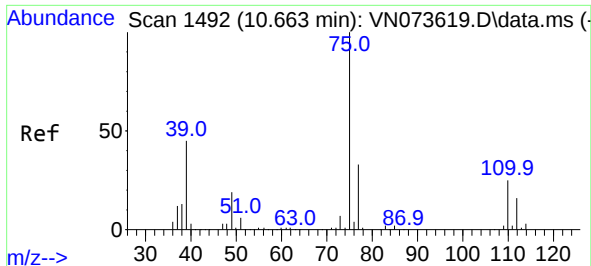
Tgt Ion: 98 Resp: 969219
Ion Ratio Lower Upper
98 100
100 64.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.994 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 43 Resp: 17216
Ion Ratio Lower Upper
43 100
58 47.1 34.1 51.1

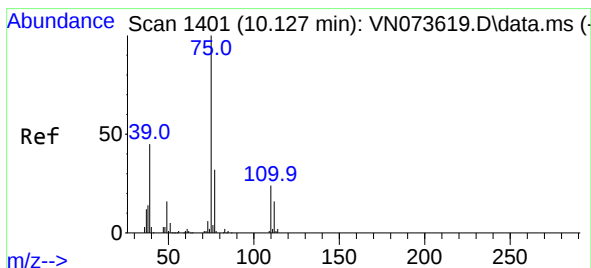
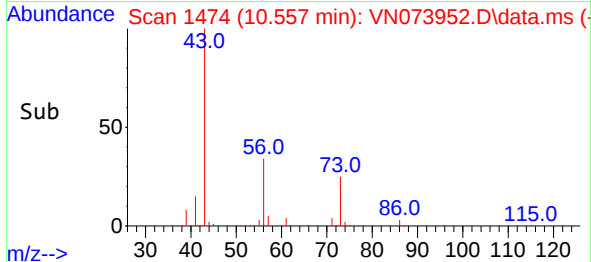
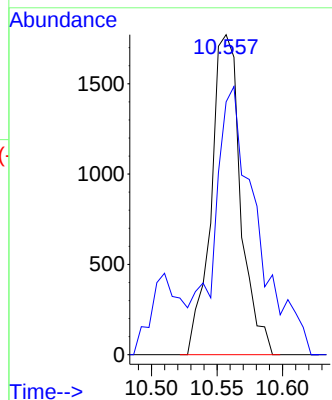
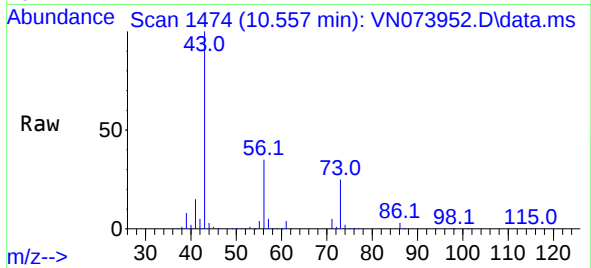




#53
t-1,3-Dichloropropene
Concen: 0.326 ug/l
RT: 10.557 min Scan# 1410
Delta R.T. -0.106 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

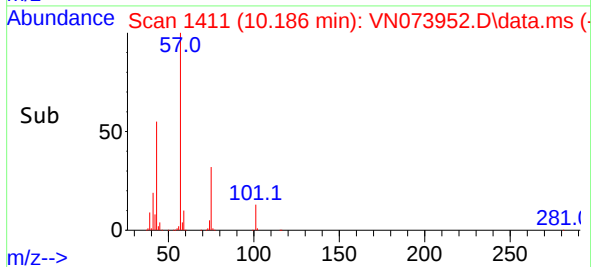
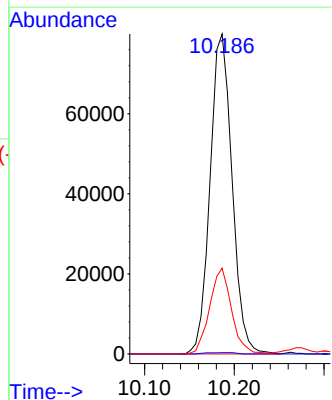
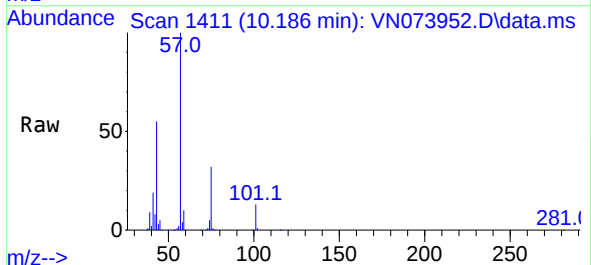
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

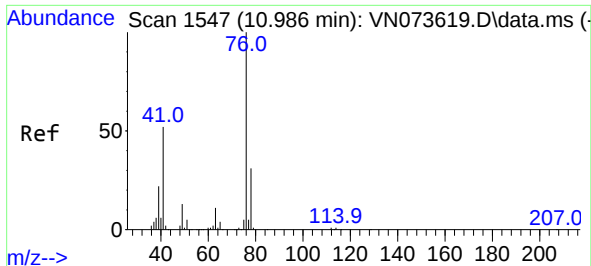
Tgt Ion: 75 Resp: 2783
Ion Ratio Lower Upper
75 100
77 66.5 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 14.570 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 75 Resp: 136087
Ion Ratio Lower Upper
75 100
77 0.4 25.2 37.8#
39 26.8 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.776 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.047 min

Lab File: VN073952.D

Acq: 16 Aug 2022 16:36

Instrument :

MSVOA_N

ClientSampleId :

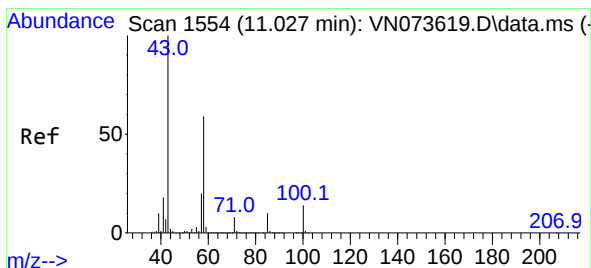
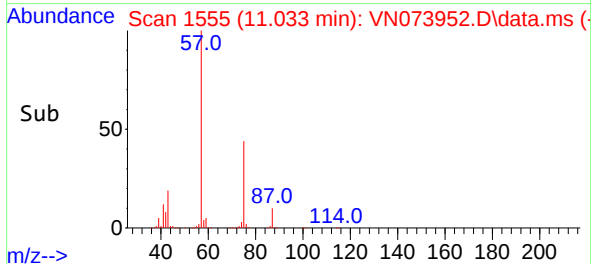
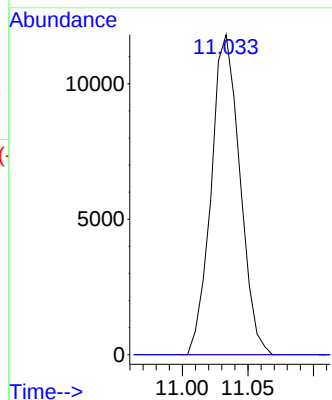
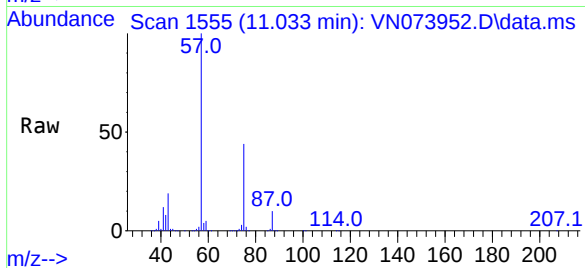
PB146976ZHE#08

Tgt Ion: 76 Resp: 17990

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 33.100 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN073952.D

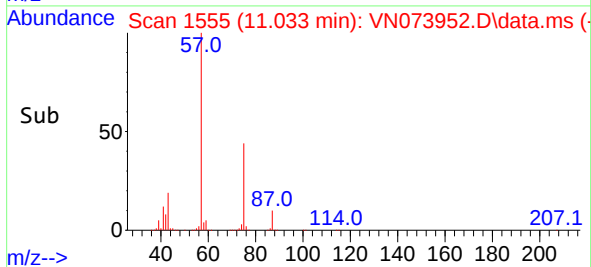
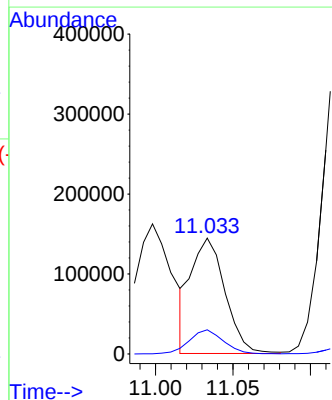
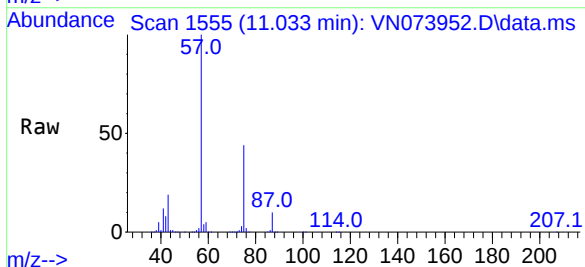
Acq: 16 Aug 2022 16:36

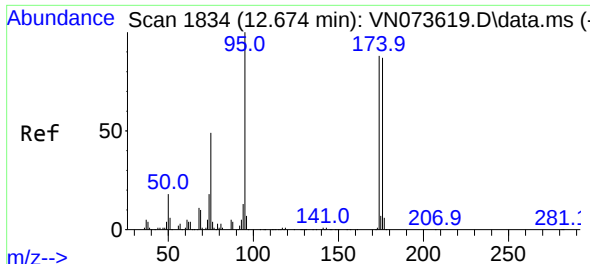
Tgt Ion: 43 Resp: 219980

Ion Ratio Lower Upper

43 100

58 21.4 29.7 89.1#

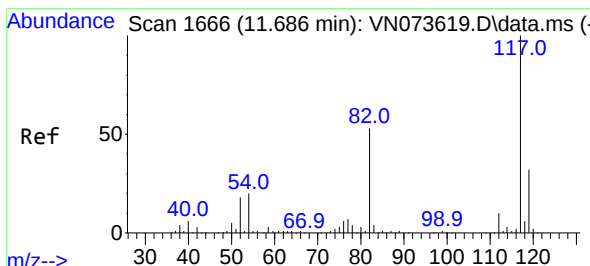
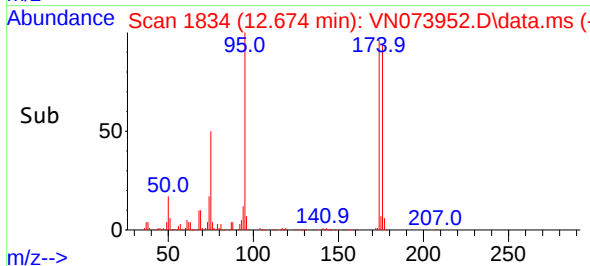
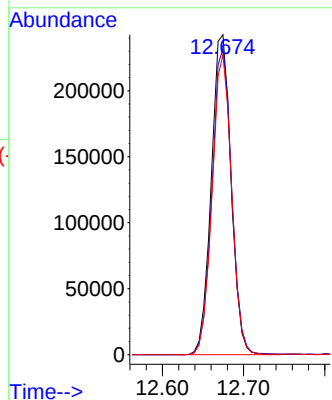
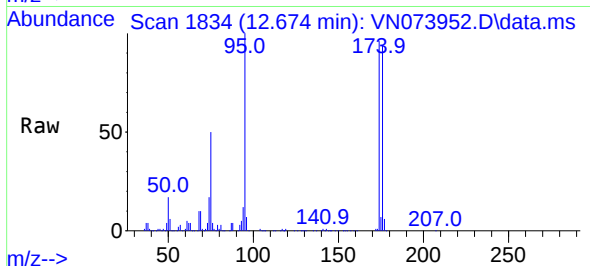




#62
4-Bromofluorobenzene
Concen: 59.798 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

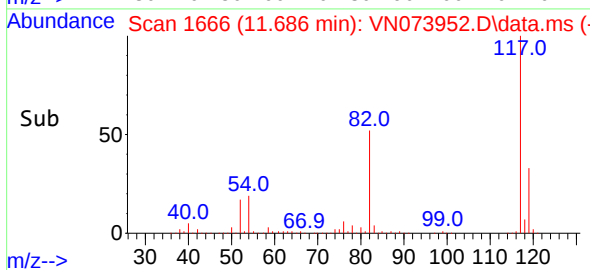
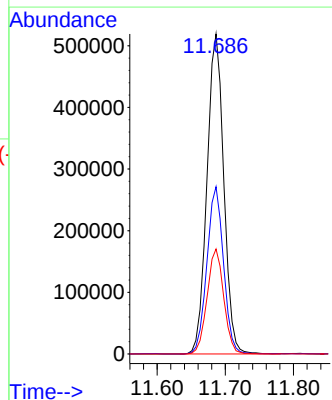
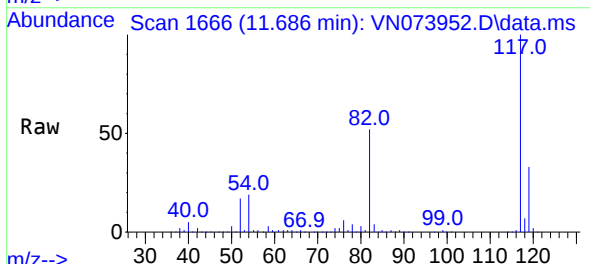
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

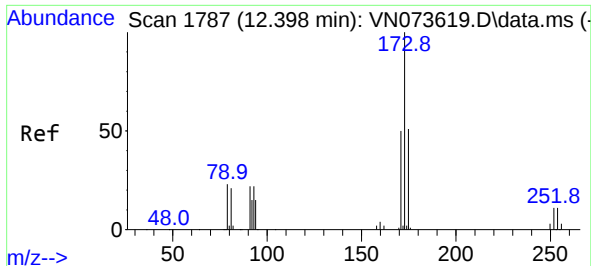
Tgt Ion: 95 Resp: 409526
Ion Ratio Lower Upper
95 100
174 95.1 0.0 167.6
176 92.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion: 117 Resp: 891788
Ion Ratio Lower Upper
117 100
82 52.3 44.2 66.2
119 32.8 25.4 38.0

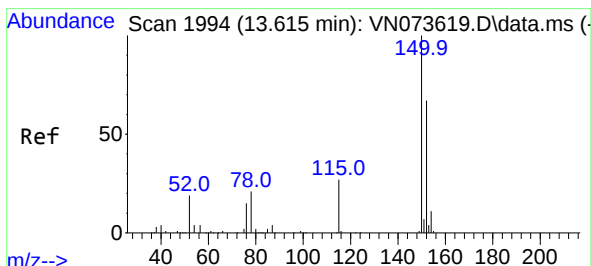
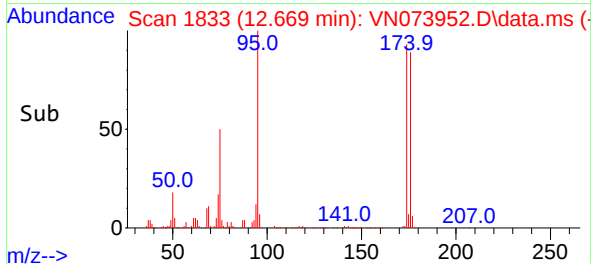
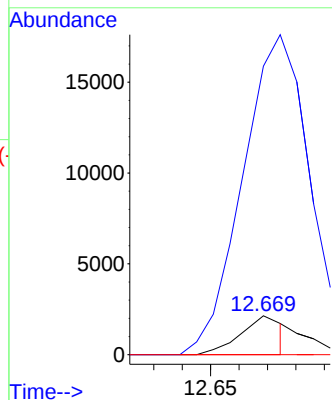
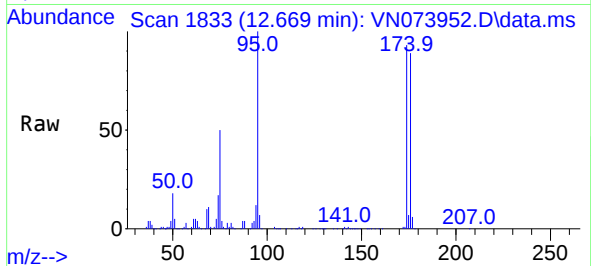




#71
Bromoform
Concen: 0.342 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

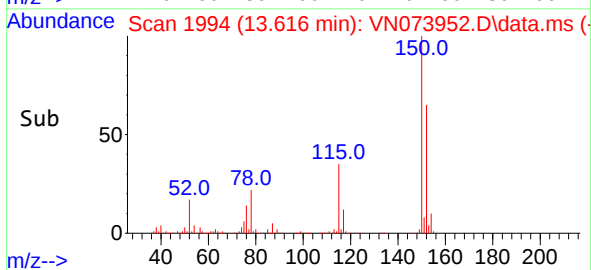
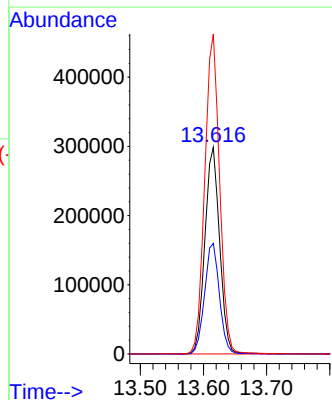
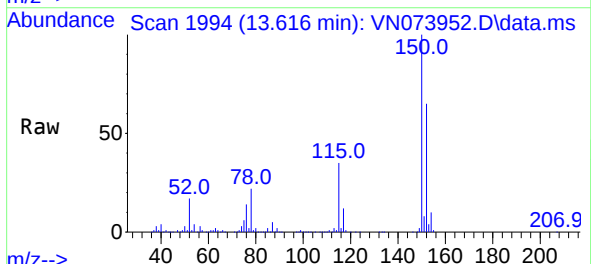
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

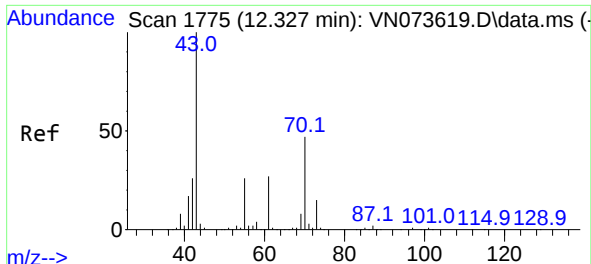
Tgt Ion:173 Resp: 2190
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

Tgt Ion:152 Resp: 484872
Ion Ratio Lower Upper
152 100
115 53.9 28.9 86.7
150 156.0 0.0 356.2

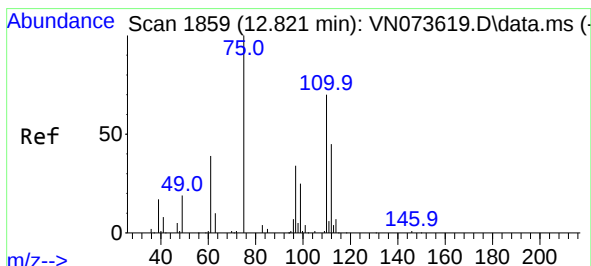
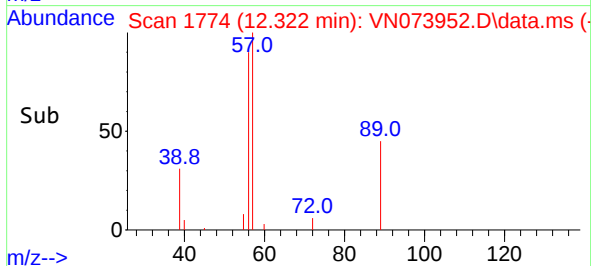
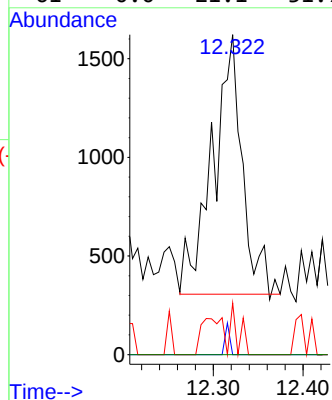
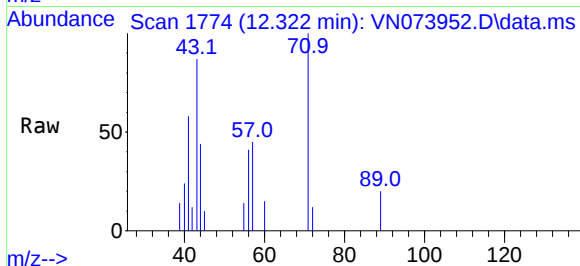




#74
N-amy1 acetate
Concen: 0.227 ug/l
RT: 12.322 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

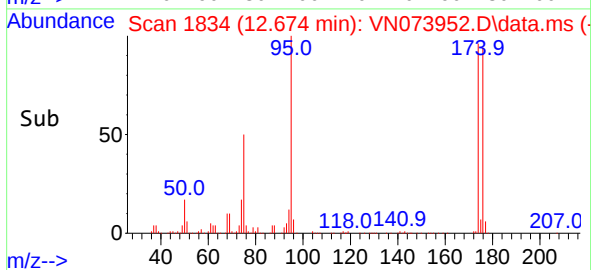
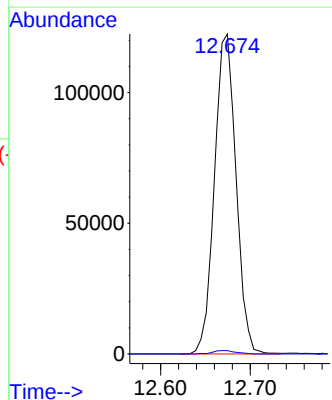
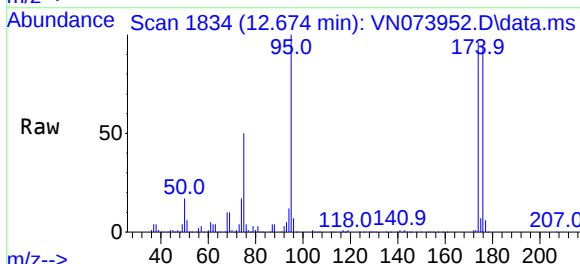
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

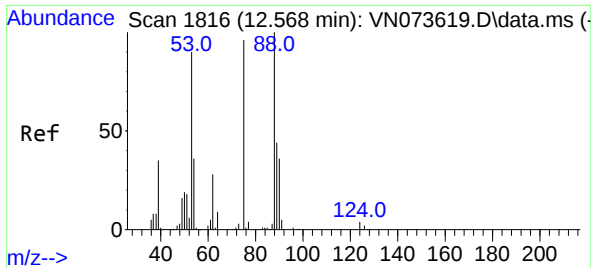
Tgt Ion: 43	Resp: 3027
Ion Ratio	Lower Upper
43 100	
70 0.0	39.0 58.4#
55 5.2	21.1 31.7#
61 0.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 20.276 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073952.D
Acq: 16 Aug 2022 16:36

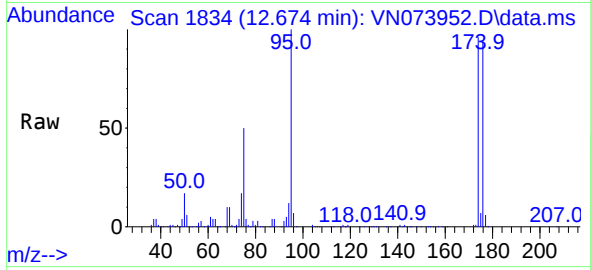
Tgt Ion: 75	Resp: 204337
Ion Ratio	Lower Upper
75 100	
77 1.2	98.5 295.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.667 ug/l
 RT: 12.674 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN073952.D
 Acq: 16 Aug 2022 16:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146976ZHE#08



Tgt Ion: 75 Resp: 204337
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.0 117.0#
 89 0.0 37.2 55.8#

